FilmL.A., Inc.
6255 W Sunset Blvd, 12th Floor
Hollywood, CA 90028
t: (213)977-8600 - f: (213)977-8601
www.filmla.com

Summary Information

Permit No: F00140436-A **Type of Permit:** FILMING **Release Date:** 08/09/2018

Production Company	ROTW PRODUCTIONS INC.
Insured Company Name	ROTW PRODUCTIONS INC.
Contact Phone No. 1	213-235-1777
Contact Phone No. 2	
Fax	
Address	201 N. OCCIDENTAL BLVD, BUNGALOW 8 LOS ANGELES, California 90026
Production Title	RIM OF THE WORLD
Type of Production	Feature

Producer	Bruce Wayne Gillies
Director	Mc G
1st AD	Mark Cotone
Production Manager	N/A N/A
FilmL.A. Coordinator	Michael Gonzalez
Location Manager	Stuart Neumann
Primary Phone	Mobile - 323-698-6899
Secondary Phone	
Location Assistant	Dianne Friedgen
Primary Phone	Mobile - 310-991-3630
Secondary Phone	

Fees

FILMLA NON-REFUNDABLE FILM PERMIT RIDER FEE	$109.00

Total Permit Fee $109.00

Number of Locations 1

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Summary Information — Location

Location 1 of 1

Permit Number	F00140436-A	**Location Manager**	Stuart Neumann
Production Company	ROTW PRODUCTIONS INC.	Primary Phone	Mobile - 323-698-6899
Insured Company	ROTW PRODUCTIONS INC.	Secondary Phone	
Production Title	RIM OF THE WORLD		

Location Address	1201 W 5th St, Los Angeles, CA, 90017
Location Name	LOS ANGELES CENTER STUDIOS
Location Type	Office Building
Location Description	LA CENTER STUDIOS /OFFICE BUILDING
Prep Dates	8/2/2018 - 8/3/2018 06:00 - 18:00 2 days
Film Dates	8/7/2018 - 8/10/2018 06:00 - 22:00 4 days
Strike Dates	8/13/2018 - 8/13/2018 06:00 - 18:00
Open or Closed to the Public	Closed
Generic Conditions	*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee. *LAFD UFSO: Company must contact FilmL.A. for extension of the Uniformed Fire Safety Officers' hours. During normal business hours, UFSO must also inform the LAFD Film desk of the extension. All vehicles must be parked on private property FAA (UAS): Failure to adhere to any applicable limitations of UAS usage will result in immediate shutdown of UAS activity FAA (UAS): UAS may not be operated directly over any person, unless authorized by FAA FAA (UAS): UAS must be operated at an altitude of no more than 400' above ground level FAA (UAS): UAS operations may not be conducted during night (1/2 hour prior to sunrise, 1/2 hour after sunset). FAA (UAS): UAS Operator must conform with all FAA Regulations Must Maintain 5' Clearance on Sidewalks/Walkways Must maintain local/emergency access No cast or crew parking on area streets No interference with vehicular or pedestrian traffic
Please see attached documents	ROTW AA.pdf ROTW drone packet.pdf

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Summary Information — Location

Permit Number F00140436-A
Production Company ROTW PRODUCTIONS INC.
Insured Company ROTW PRODUCTIONS INC.
Production Title RIM OF THE WORLD

Location Manager Stuart Neumann
Primary Phone Mobile - 323-698-6899
Secondary Phone

Equipment on Location

Type	Quantity
10 Ton Truck	2
5 or 10 ton trucks	3
Cast/Crew vehicles	100
Catering Truck	1
Condors	1
Cube Trucks	3
Generator	1
Portable restrooms	1
Scissor Lifts	1
Semi Trucks	2
Stakebed Trucks	4
Vans	4

Personnel on Location

Type	Quantity
Cast	4
Crew	100
LA City UFSO assigned	43190

Filming Activities Aerial Photography with remote control aircraft. (UAS); Atmospheric Smoke Effects; Equipment on property; Interior and exterior dialogue; Tuesday August 7, 2018 (Stage 4 & Roof); Wednesday August 8, 2018 (Lobby & Interior Police Station/Jail Set & Roof); Thursday August 9, 2018 (Interior Hallways & Escalators & Ext/Front 2nd Floor Parking Deck & Roof); Friday August 10, 2018 (Exterior Rear Entrance, Pedestrian Bridge Walkways & Boylston Street & Roof); DRONE USE on Rooftop 8/8;

Special Effects: F/X Permit # 26959

Type	No. Times Per Day	No. Takes Per Take
Fire Effects	15 - 20	15 - 20
Smoke effects	15 - 20	15 - 20

Description of F/X Scene: Atmospheric Smoke, Fogger, Spot Fires, Burning Car Husks
CARS ON FIRE W/ SMOKE AND FIRE BALL
4-5 GAL PROPANE TANKS ,4- 25 GAL PROPANE TANKS ,24-STERNOS AND 6 -PRETO LOGS
UNDER THE DIRECT SUPERVISION OF CANGEMI, DANNY, 1105.06 AND UFSO REQUIRED FP#140436
6 Foot Flame Bar

Jurisdiction **Political:** Los Angeles City - Council District 01 **Police:** Los Angeles Police Department **Fire:** Los Angeles City

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Summary Information — Location

Permit Number	F00140436-A	**Location Manager**	Stuart Neumann
Production Company	ROTW PRODUCTIONS INC.	Primary Phone	Mobile - 323-698-6899
Insured Company	ROTW PRODUCTIONS INC.	Secondary Phone	
Production Title	RIM OF THE WORLD		

Thomas Guide **Page:** 634 **Grid:** E3

Coordinator Note Rider A adjusts FX activity

Parking

Base Camp
Location Type : Filming Location

Crew Parking
Location Type : Filming Location

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Appointment of Stanley Production Services
As Authorized Agent and Representative

I certify that I am a representative of ROTW Productions Inc. ("Principal") and am authorized to enter into binding contractual agreements on its behalf. I further certify that I am authorized by Principal to appoint other representatives and agents for Principal and to give such representatives and agents authority to enter into and bind Principal to agreements relating to the issuance of and compliance with location film (e.g. theatrical, television, commercial and other motion. picture filming) and still photographic permits, including the permits themselves and any riders to such permits. Acting on behalf of Principal in my capacity as its authorized representative, I appoint Stanley Production Services and it employees and agents SPS as Principal's authorized representatives and agents to apply for location film (e.g. theatrical, television, commercial and other motion. picture filming) and still photographic permits on behalf of Principal through FilmLA, Inc. for any city, county or through any other jurisdictions where FilmLA, Inc. operates, to negotiate, discuss, accept, modify, agree to and bind Principal to the terms and conditions of such permits (including all restrictions and/or community guidelines applicable to any such permit); and to execute such permits on behalf of Principal. Principal understands, acknowledges and agrees that it (and/or its insurer) remains responsible and liable for all obligations imposed by or incidental to any permit or rider issued to Principal signed by any employee or agent of (including any coordinator, runner or messenger used by) SPS Principal further agrees to comply with the terms and conditions of any such permits and hereby appoint SPS as an authorized representative to facilitate compliance with such terms and conditions following issuance of any such permits and to enter into agreements for Principal with respect thereto. Any person, agency, entity, or organization (including FilmLA, Inc. and any city, county or other jurisdictions where FilmLA, Inc. operates) may rely upon this appointment and need not obtain further authorization for any act described herein. An original or faxed copy of this appointment shall be sufficient, and may be treated as an original for your purposes. The appointment may be revoked by Principal at any time in writing delivered to FilmLA, Inc., but in any case shall expire one (1) year from the date of execution set forth below.

I declare under penalty of perjury under the laws of the State of California that I am authorized to appoint SPS as agent for Principal, and based upon that authority I hereby appoint SPS as Principal's agent as set forth herein.

Date: 7/17/2018

Representative's Signature

Stuart Neumann

Representative's Name (Please Print)

Locations

Representative's Title (Please Print)

ROTW Productions Inc.

Name of Principal (i.e. company name) (Please Print)

Street: 201 N. Occidental Blvd. Bungalow 8
City: Los Angeles
State: CA
ZIP: 90026

Principal's Mailing Address (Please Print)

213-235-1777

Principal's Phone Number (Please Print)

Stanley Production Services

957 Woodlawn Dr
Thousand Oaks Ca 91360

NOT A PERMIT

Permit #F00140436-A

UAS QUESTIONNAIRE

(FOR MORE THAN 2 LOCATIONS, PLEASE USE AN ADDITIONAL FORM)

FilmL.A. Permit #:

Film Date: August 8, 2018 Production Title: ROTW

Production Company: ROTW productions Applicant Name: Steven Blizzard

Location Address: LA Center Studios 450 S Bixel St Los Angeles, CA 90017 Hours of UAS Activity: 1700-0300

Location Address #2: Hours of UAS Activity:

UAS Company Name: Aerial MOB

UAS ON LOCATION INFORMATION

ANY RESTRICTED AREAS OR TEMPORARY FLIGHT RESTRICTIONS? ☐ YES ■ NO

UAS Make & Model: Freefly Alta 8 UAS "N" # or registration #: FA3ENHHCX4

UAS Make & Model: UAS "N" # or registration #:

Class of Airspace that activity will occur in: ☐ B ☐ C ☐ D ☐ E ■ G

REMINDER: IF YOU ARE FLYING IN CLASS B, C, D, OR E AIRSPACE, ATC AUTHORIZATION IS REQUIRED FOR ALL UAS ACTIVITY.

UAS OPERATING AUTHORITY: ☐ 333 EXEMPTION ■ 14 CFR PART 107

333 EXEMPTION REQUIREMENTS

Name of Pilot in Command: Pilot's Phone #:

Name of Visual Observer: Visual Observer's Phone #:

PLEASE PROVIDE THE FOLLOWING:
- Copy of COA or Blanket COA
- Copy of POA with proof of submission to local FSDO
- Copy of Pilot's License

PART 107 REQUIREMENTS

Name of Remote Pilot: Steven Blizzard Certificate #: 3904184

Remote Pilot Phone #: 6198890051 Visual Observer: ■ YES ☐ NO

PLEASE PROVIDE THE FOLLOWING:
- Copy of Remote Pilot's Certificate
- Copy of UAS Registration Certificate for each UAS listed above
- Description of Planned Operations

WAIVERS

If you are requesting any of the following activity, please check all that apply and furnish proof of waiver from the FAA upon submission of this document to FilmL.A.

☐ Flight over non-participants (§107.39) ☐ Flight altitude restrictions (§107.51) ■ Night Flight (§107.29)

☐ Operating from a moving vehicle (§107.25) ☐ Operating multiple small UAS' (§107.35)

FILMLA. USE ONLY

333 EXEMPTION

☐ INSURANCE ☐ PILOT'S LICENSE
☐ COA ☐ DOCS ATTACHED TO PERMIT
☐ POA ☐ VISUAL OBSERVER

PART 107 CERTIFICATE

☐ INSURANCE ☐ WAIVERS
☐ DOCS ATTACHED TO PERMIT ☐ DESCRIPTION OF OPS.
☐ REMOTE PILOT CERTIFICATE ☐ ATC COORDINATOR NOTE
☐ UAS REGISTRATION CERTIFICATE(S)

☒ Steven Blizzard **I ASSERT THAT ALL INFORMATION ON THIS FORM IS ACCURATE.**

(APPLICANT)

UPDATED: 10/13/2016

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AERIAL MOB LLC MOTION
PICTURE MANUAL
PLAN OF ACTIVITIES

1. Name of production.

ROTW 4958

2. Dates and times for all flights.

8/08/2018 - 1700-0300 pdt

3. Name and phone number of the person responsible for the production.

Bruce Gillies 213-235-1777

4. Name and phone number of the person responsible for the sUAS.

Steven Blizzard 619.889.0051 Aerial MOB representative

5. Make, model and serial number and/or registration number of all sUAS to be used.

Freefly Systems Alta 8 FA3ENHHCX4

6. Name and certificate number of all pilots to be utilized in the production event.

Steven Blizzard 3904184

7. A statement that the waiver holder has obtained written/witnessed oral permission from

We have a film permit/location agreement for filming the properties described

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8. Signature of waiver holder or representative. Aerial MOB llc Permit #F00140436-A

9. A general outline, or summary of proposed production flight activities.

We will be making various flights through the day 5-10 minutes at a time with 5 to 60 minute breaks between flights. most operations will be less that 100' in altitude. no more than 400' daytime and 200' night time per the FAA. We are operating under part 107 and will not fly over the general public.

10. Maps or diagrams of the proposed operation, relative to a specific production location, will See attached map for the proposed operating area.

ADDITIONAL COMMENTS

The production will be located on a controlled, closed-set environment. There will be no un-authorized personnel or general public allowed within the immediate vicinity of the production.

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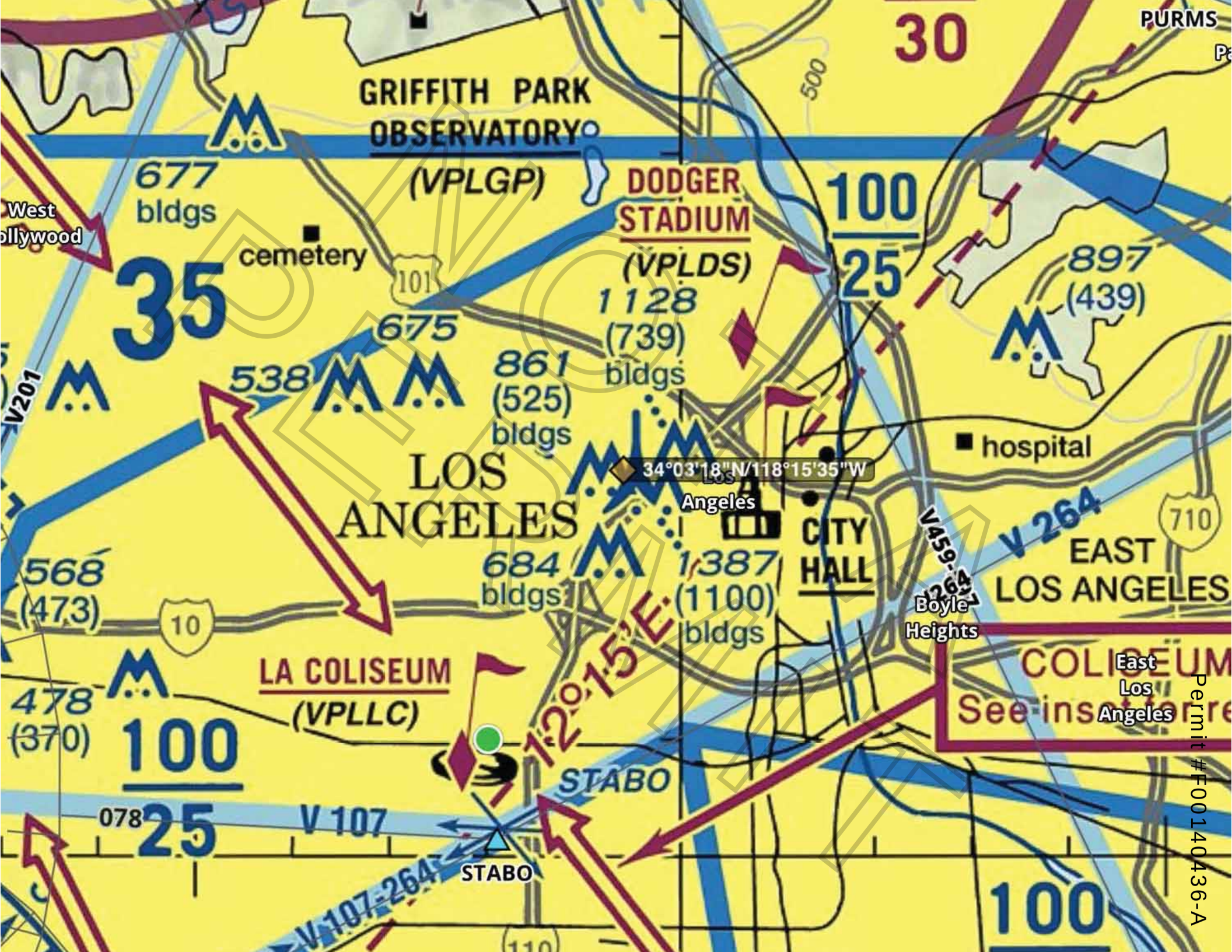
Location

LA Center Studios 450 S Bixel St Los Angeles, CA 90017

Please find on the following pages a general outline of the plan of events, maps, or diagrams of the specific filming location. If you have any questions I can be reached at 619.889.0051



Permit #F00140436-A

Small UAS Certificate of Registration

Name: Aerial MOB llc

Manufacturer: Freefly

Model: Alta 8

Serial Number: 371888

Certificate Number: FA3ENHHCX4

Issued: 07/12/2018 Expires: 07/12/2021

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

For all holders, for all operations other than as a model aircraft under sec. 336 of Pub. L. 112-95, additional safety authority from FAA and economic authority from DOT may be required.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas

Federal Aviation Administration

NOT A PERMIT

I UNITED STATES OF AMERICA XI

DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION

IV NAME
STEVEN MICHAEL BLIZZARD

V ADDRESS 8865 LOS COCHES RD
LAKESIDE CA 92040-5010

VI NATIONALITY USA
IVa D.O.B. 6 MAY 1970

SEX	HEIGHT	WEIGHT	HAIR	EYES
M	72	220	RED	BROWN

IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF

II REMOTE PILOT
III CERTIFICATE NUMBER 3904184
X DATE OF ISSUE 30 AUG 2016

XIV
VIII ADMINISTRATOR

U A S

STEVEN MICHAEL BLIZZARD 3904184

XII RATINGS

REMOTE PILOT
SMALL UNMANNED AIRCRAFT SYSTEM

XIII LIMITATIONS

U A S

VII SIGNATURE OF HOLDER

NOT FAA

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

Aerial Mob
Responsible Person: Steven Blizzard
Waiver Number: 107W-2016-01079

ADDRESS –

2236 Rutherford Rd #115
Carlsbad, CA 92008

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Night small unmanned aircraft system (sUAS) operations.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR § 107.29 Daylight operation

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions Nos. 1 to 11, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from December 15, 2016 to December 31, 2020 and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

General Aviation and Commercial Division, AFS-800

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FAA Form 7711-1 (7-74) CC

SPECIAL PROVISIONS ISSUED TO
Aerial Mob

General.

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. The Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below, because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and may serve as justification for cancellation.

List of Regulations Waived by Section and Title. The following regulations are waived:

14 CFR § 107.29, Daylight operation, is waived to allow sUAS operations during night.

Common Provisions. The Responsible Person is directly responsible for safety of operations conducted under this Waiver and will ensure the remote Pilot in Command (PIC), manipulator of the controls, and Visual Observer (VO) complies with all provisions of this Waiver.

1. This Waiver must not be combined with any other waiver(s), authorizations(s), or exemption(s) without specific authorization from the FAA;

2. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air, are in jeopardy or there is a violation of the terms of this Waiver;

3. Operations under this Waiver are to be conducted in Class G airspace only unless specific airspace authorization or Waiver is received from the FAA in accordance with § 107.41;

4. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;

5. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

6. The Responsible Person listed on this Waiver must maintain a current list of small unmanned aircraft (sUA) by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

Night sUAS Operations Special Provisions. sUAS operations may be conducted at night, as defined in 14 CFR § 1.1, provided:

7. All operations under this Waiver must use one or more VO;

8. Prior to conducting operations that are the subject of this Waiver, the Responsible Person listed on the

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Waiver must ensure the remote PIC and VO are trained, as described in the Waiver application, to recognize and overcome visual illusions caused by darkness, and understand physiological conditions which may degrade night vision. This training must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;

9. The remote PIC and VO must ensure the area of operation is sufficiently illuminated to allow both the remote PIC and VO to identify people or obstacles on the ground, or the remote PIC and VO must conduct a daytime site assessment prior to conducting operations that are the subject of this Waiver, noting any hazards or obstructions;

10. The sUA must be equipped with lighted anti-collision lighting visible from a distance of no less than 3 statute miles. The remote PIC may reduce the intensity of the anti-collision lighting if he or she determines that, because of operating conditions, it would be in the interest of safety to do so; and

11. In addition to the requirements of § 107.51(b), the sUA must not fly higher than 200 feet above any structure's immediate uppermost limit.

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SPECIFICATIONS

DIMENSIONS

Unfolded Diameter (does not include Props)	1325 mm
Folded Diameter (does not include Props)	660 mm
Height to base of Toad In The Hole (TITH)	263 mm

POWERPLANT

Number of Motors	8
Motor Type	Direct Drive 3-Phase PMAC Outrunner
Motor Make and Model	Freefly F45
Motor Max Continuous Power Output	350 W
Motor Max Instantaneous Peak Power Output	950 W
Max RPM (flat rated)	6300 RPM
Equivalent Kv	384
Electronic Speed Controller	Freefly Silent-Drive Sine Wave ESC

NO PERMIT

PROPELLERS

Permit #F00140436-A

Make and Model	Freefly ALTA Propeller
Material	Carbon fiber with balsa core
Propeller Orientation	(4) CW and (4) CCW Props
Propeller Type	18 x 6 Folding

BATTERY

Nominal Battery Voltage	6S / 22.2V
Maximum Battery Size	240 x 180 x 80 mm
Maximum Battery Quantity	2 Battery Packs (Parallel)
Minimum Battery Quantity	2 Battery Packs (Parallel)
Battery Connectors	2x EC5 (Parallel)
Required Minimum Battery Discharge Rating	250A / 500A Peak

WEIGHTS

Maximum Gross for Takeoff[1]	18.1 kg (40.0 lbs)
Maximum Useful Load[2]	12.0 kg (26.4 lbs)
Maximum Payload[3]	9.1 kg (20.0 lbs)
Typical Standard Empty Weight	6.2 kg (13.6 lbs)

WARNING

Always refer to the following aircraft limitations section for complete information on allowable maximum gross weights at different altitudes and temperatures before any flight.

SPECIFIC LOADINGS

Typical Specific Power[4]	145 W/kg
Thrust Ratio at Max Takeoff Weight (MTOW)[1]	1.85 : 1

FLIGHT CONTROLLER

Model Name	Freefly SYNAPSE Flight Controller
Flight Modes	Manual
Height Hold Mode	
Position Mode	
Return-To-Home	
Autoland	

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Permit #F00140436-A

Supported Inputs	DSMX, DSM2, S.Bus, S.Bus2, PPM, FPV SD
Supported Radios	Futaba S.Bus & S.Bus2
DSMX, DSM2 (Spektrum/JR)	
PPM, PPM Invert, PPM Graupner	
Supported Radio Controller Telemetry Systems	Futaba w/ built-in voltage sense port
Minimum Radio Controller Channels Required	>5
Supported GNSS	GPS, GLONASS, Galileo
Supported SBAS	QZSS, WAAS, EGNOS, MSAS
First-Person View System Video Formats	NTSC, PAL
Supported First-Person View Transmitters	Skyzone BOSCAM Immersion RC Fatshark
Supported First-Person View Cameras	Ready Made RC
First-Person View OSD Telemetry	User Configurable
Installed Transceivers	Wi-Fi
Data Logging Rate	25 Hz

LIGHTING AND INDICATION

Status Light	1-Watt Red, 1-Watt White LED
Orientation Lights	3-Watt RGB LED
Orientation Light Color	Red, Yellow, Blue, Green, White

ISOLATION SYSTEM

Vibration Isolation System	Silicone O-Rings
ISOLATION SYSTEM OPTIONS:	
1. Soft/Light Payloads	Red O-Rings
2. Medium/Mid Payloads	Teal O-Rings
3. Stiff/Heavy Payloads	Black O-Rings

PAYLOAD MOUNTING

Mounting Locations	Bottom and Top Mount
Mounting System	Freefly Toad In The Hole (TITH) Quick Release
FPV Camera Mount	Between booms 8 & 1
FPV Transmitter Mount	Boom 2

NOTE

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These limitations are advisory in nature and do not extend or restrict limitations provided by Governing Aviation Authorities.

POWERPLANT LIMITATIONS

Maximum RPM	6300 RPM
Maximum Battery Voltage	25.2 Volts
Minimum Average Battery Voltage	19.2 Volts

ENVIRONMENTAL LIMITATIONS

Do not fly ALTA 8 in temperatures exceeding 45°C (113°F) or below -20°C(-4°F).[5]

FLIGHT CONTROLLER LIMITS

Maximum Pitch/Roll Angle	45°
Maximum Yaw Rate	150° / second

1. At sea level, standard conditions.
2. Top and bottom mount. Includes batteries.
3. Payload weight top or bottom mount. Battery weight not included and mounted on opposite side from payload in typical configurations.
4. At maximum takeoff weight, sea level, standard conditions.
5. Must additionally observe battery temperature ratings.

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